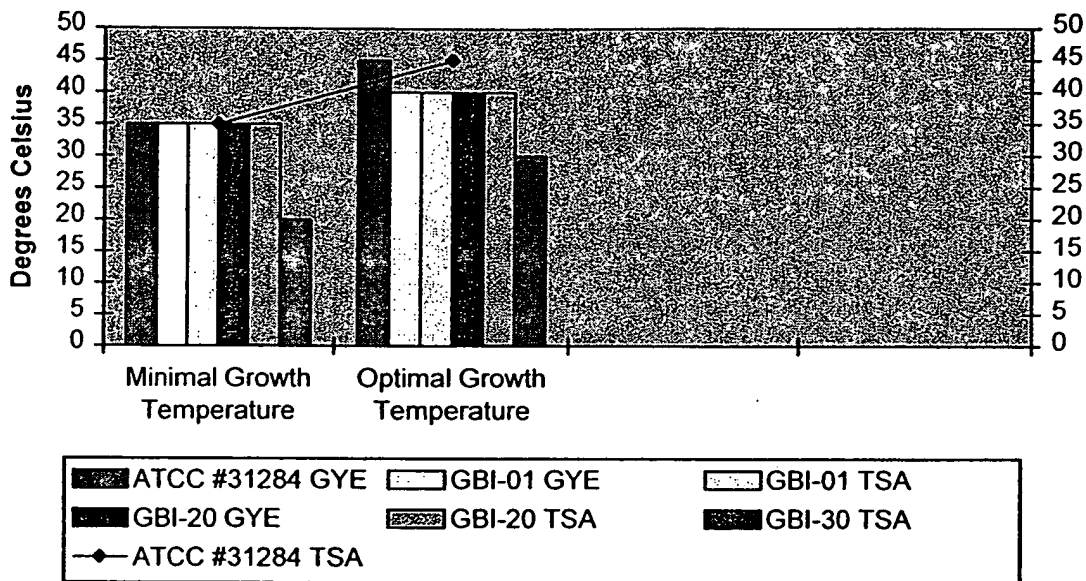
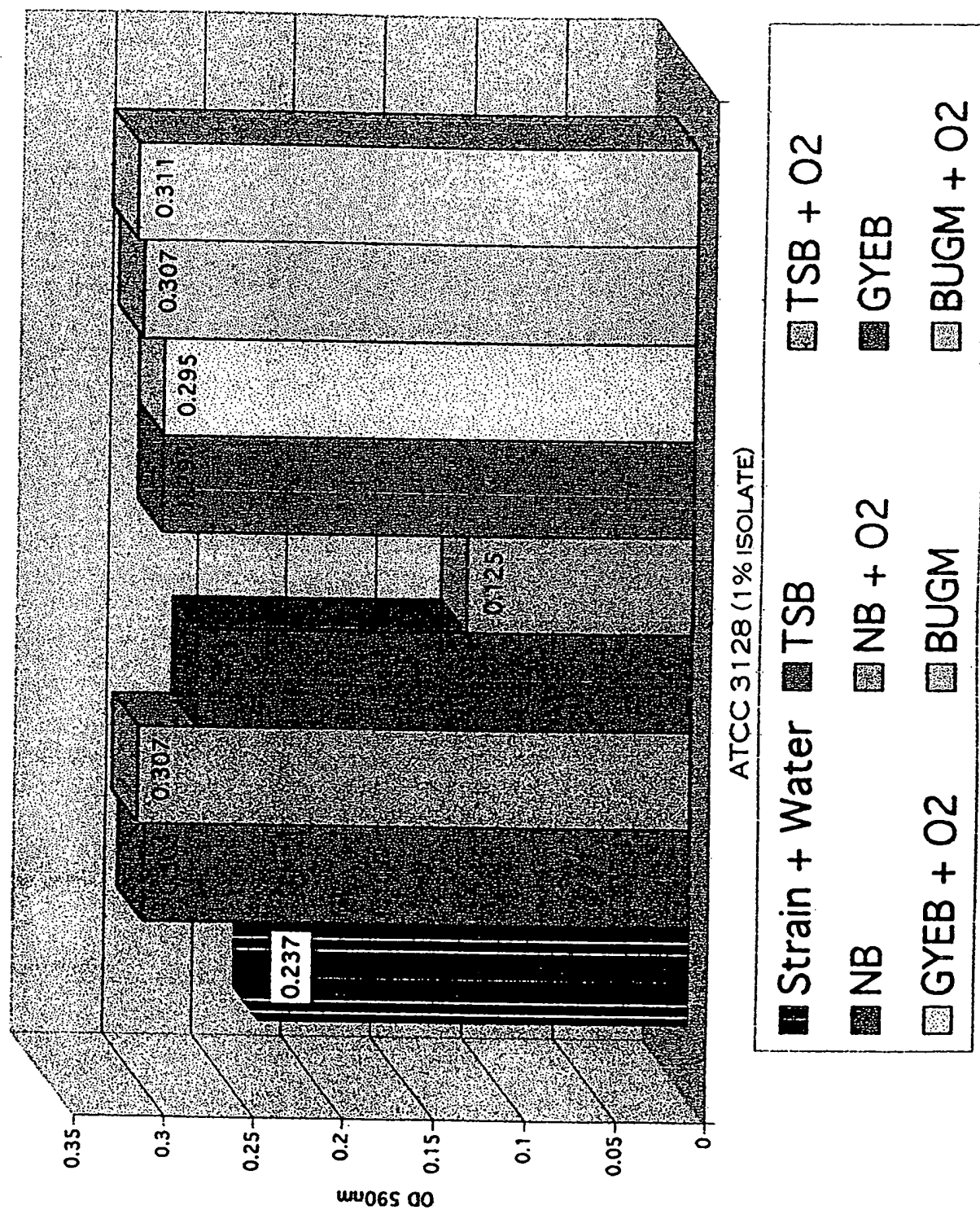


FIG. 1

Minimal & Optimal Growth Temperatures for Selected
Strains of *Bacillus coagulans*



1. The first step is to identify the problem. This involves understanding the symptoms and the context in which they are occurring.



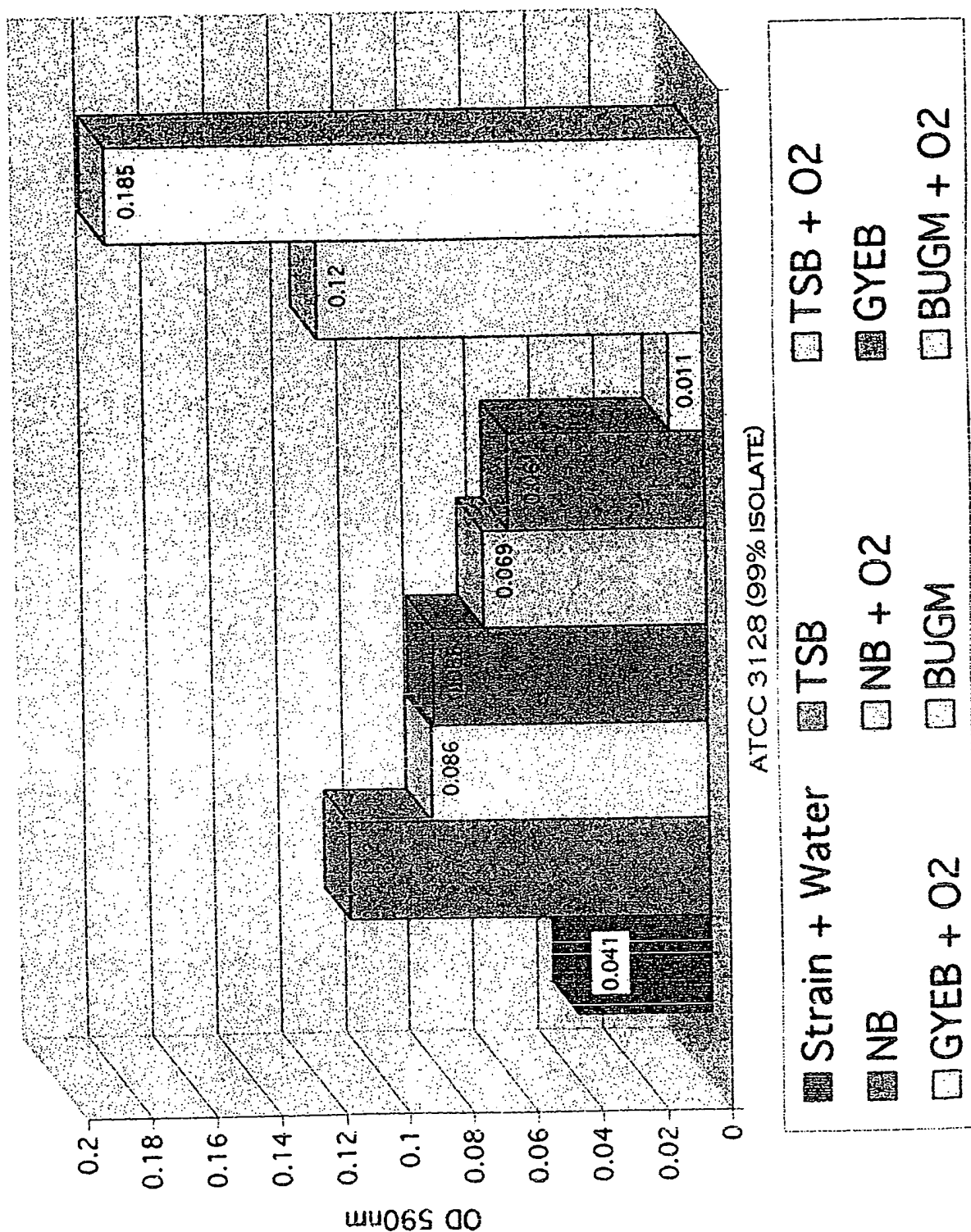


FIG. 3

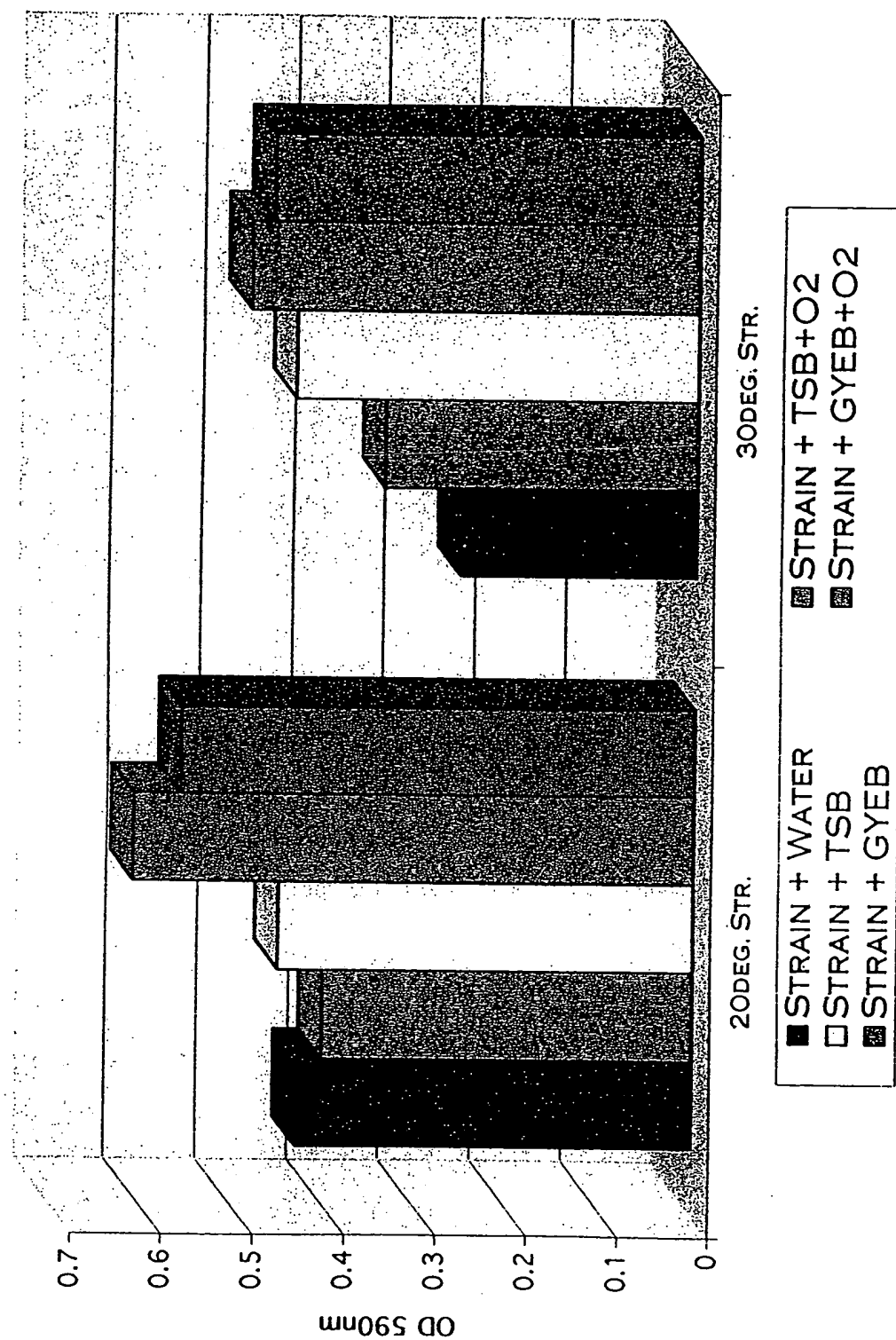


FIG. 4

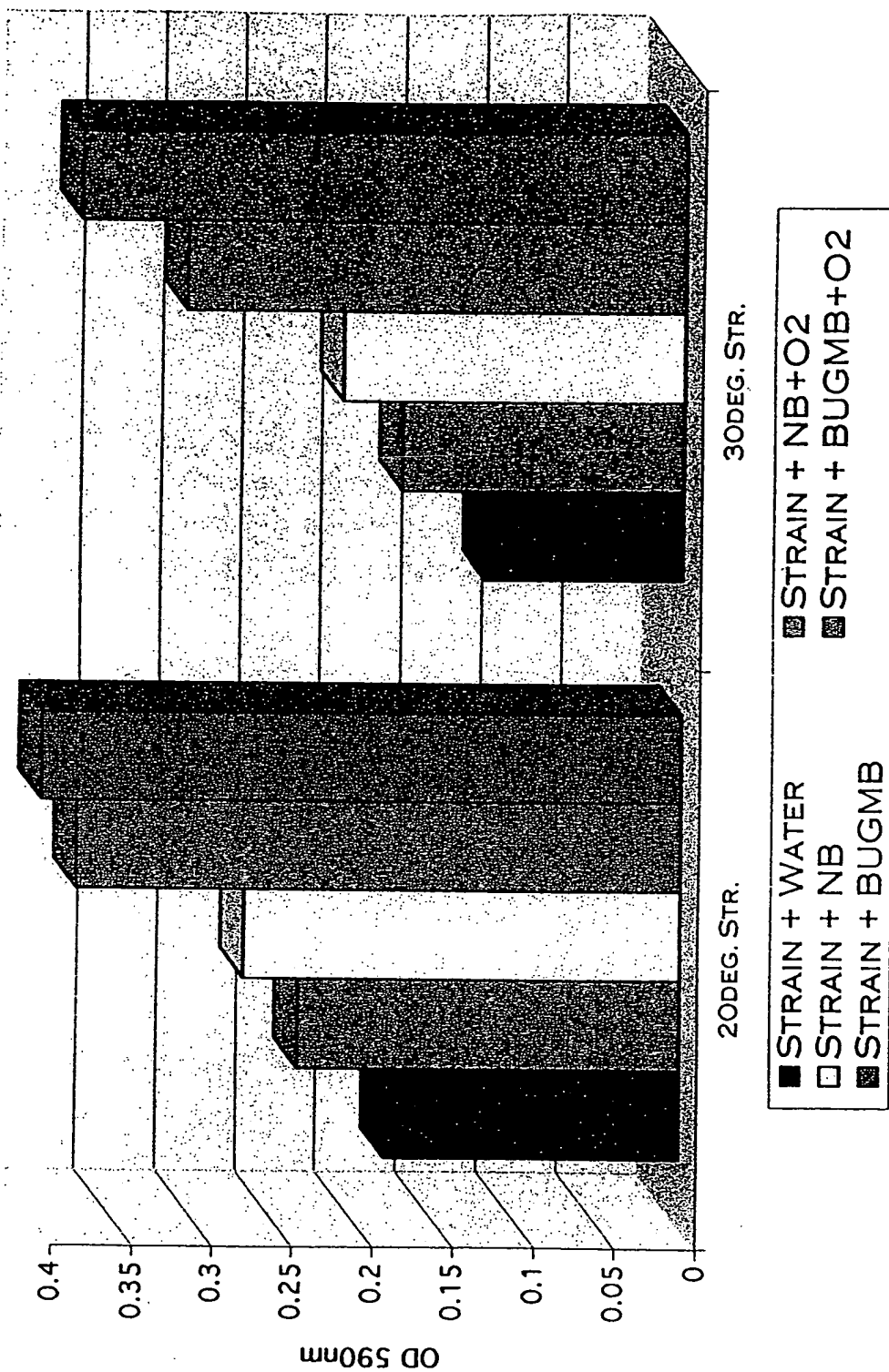
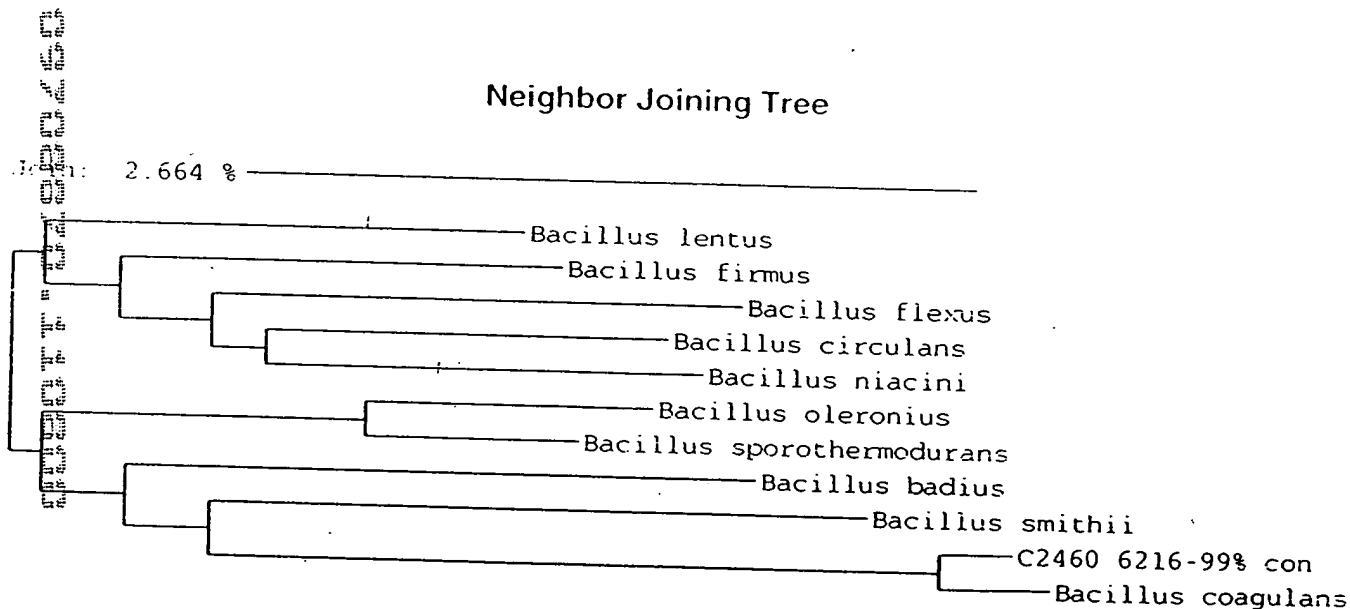


FIG. 5

FIG. 6

Alignment: 1549 C2460 6216-99% con
 0.65 % 1549 Bacillus coagulans
 4.84 % 1548 Bacillus oleronius
 5.36 % 1550 Bacillus smithii
 5.62 % 1548 Bacillus sporothermodurans
 5.65 % 1551 Bacillus badius
 5.79 % 1547 Bacillus firmus
 5.85 % 1547 Bacillus lentus
 5.90 % 1543 Bacillus circulans
 5.95 % 1545 Bacillus niacini
 6.30 % 1548 Bacillus flexus

Neighbor Joining Tree



Concise Alignment

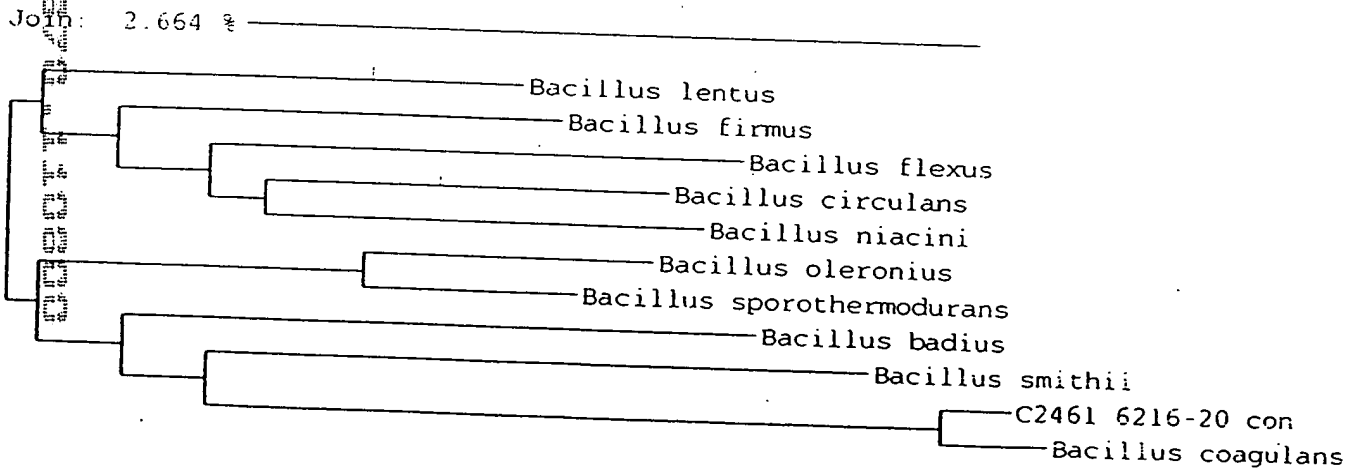
1
 111222222241
 347011256784
 902967240204

C2460 6216-99% con TCGAYTTWTTTC (SEQ ID NO:1; where r = A or G, y = C or T, and w = A or T)
 Bacillus coagulans CTRGCCACCCG (SEQ ID NO:2; where r = A or G, y = C or T, and w = A or T)

FIG. 7

Alignment: 1549 C2461 6216-20 con
 0.65 % 1549 Bacillus coagulans
 4.84 % 1548 Bacillus oleronius
 5.36 % 1550 Bacillus smithii
 5.62 % 1548 Bacillus sporothermodurans
 5.65 % 1551 Bacillus badius
 5.79 % 1547 Bacillus firmus
 5.85 % 1547 Bacillus lentus
 5.90 % 1543 Bacillus circulans
 5.95 % 1545 Bacillus niacini
 6.30 % 1548 Bacillus flexus

Neighbor Joining Tree



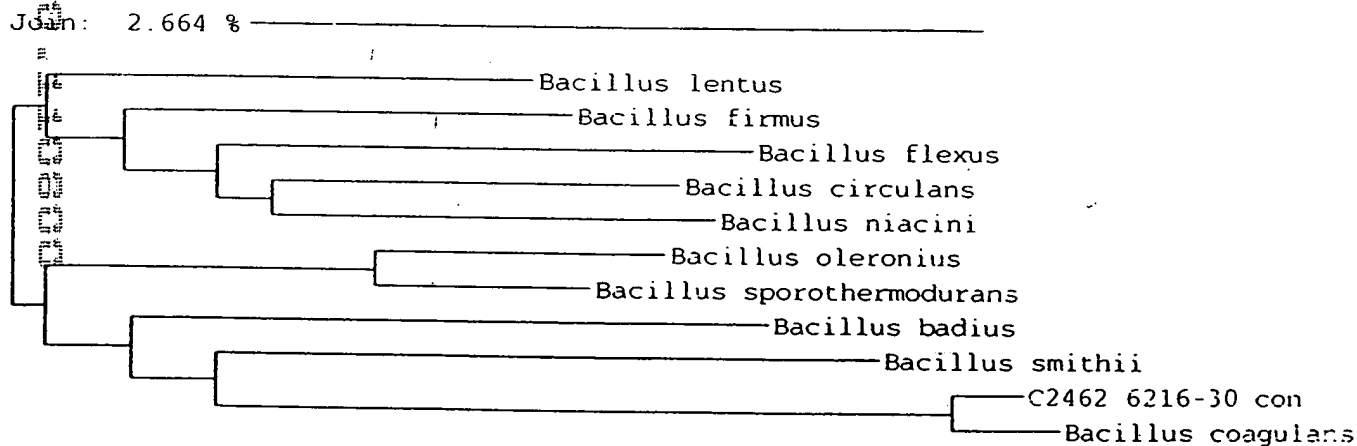
Concise Alignment

	1	
	111222222241	
	347011256784	
	902967240204	
C2461 6216-20 con	TCGAYTTWTTYC	(SEQ ID NO:1; where r = A or G, y = C or T, and w = A or T)
Bacillus coagulans	CTRGCCACCCG	(SEQ ID NO:2; where r = A or G, y = C or T, and w = A or T)

FIG. 8

Alignment: 1549 C2462 6216-30 con
 0.65 % 1549 Bacillus coagulans
 4.84 % 1548 Bacillus oleronius
 5.36 % 1550 Bacillus smithii
 5.62 % 1548 Bacillus sporothermodurans
 5.65 % 1551 Bacillus badius
 5.79 % 1547 Bacillus firmus
 5.85 % 1547 Bacillus lentus
 5.90 % 1543 Bacillus circulans
 5.95 % 1545 Bacillus niacini
 6.30 % 1548 Bacillus flexus

Neighbor Joining Tree



Concise Alignment

1
 111222222241
 347011256784
 902967240204
 C2462 6216-30 con TCGAYTTWTTYC (SEQ ID NO:1; where r = A or G, y = C or T, and w = A or T)
 Bacillus coagulans CTRGGGACCCG (SEQ ID NO:2; where r = A or G, y = C or T, and w = A or T)

Plate #1 Bacillus 99% ATCC Isolate

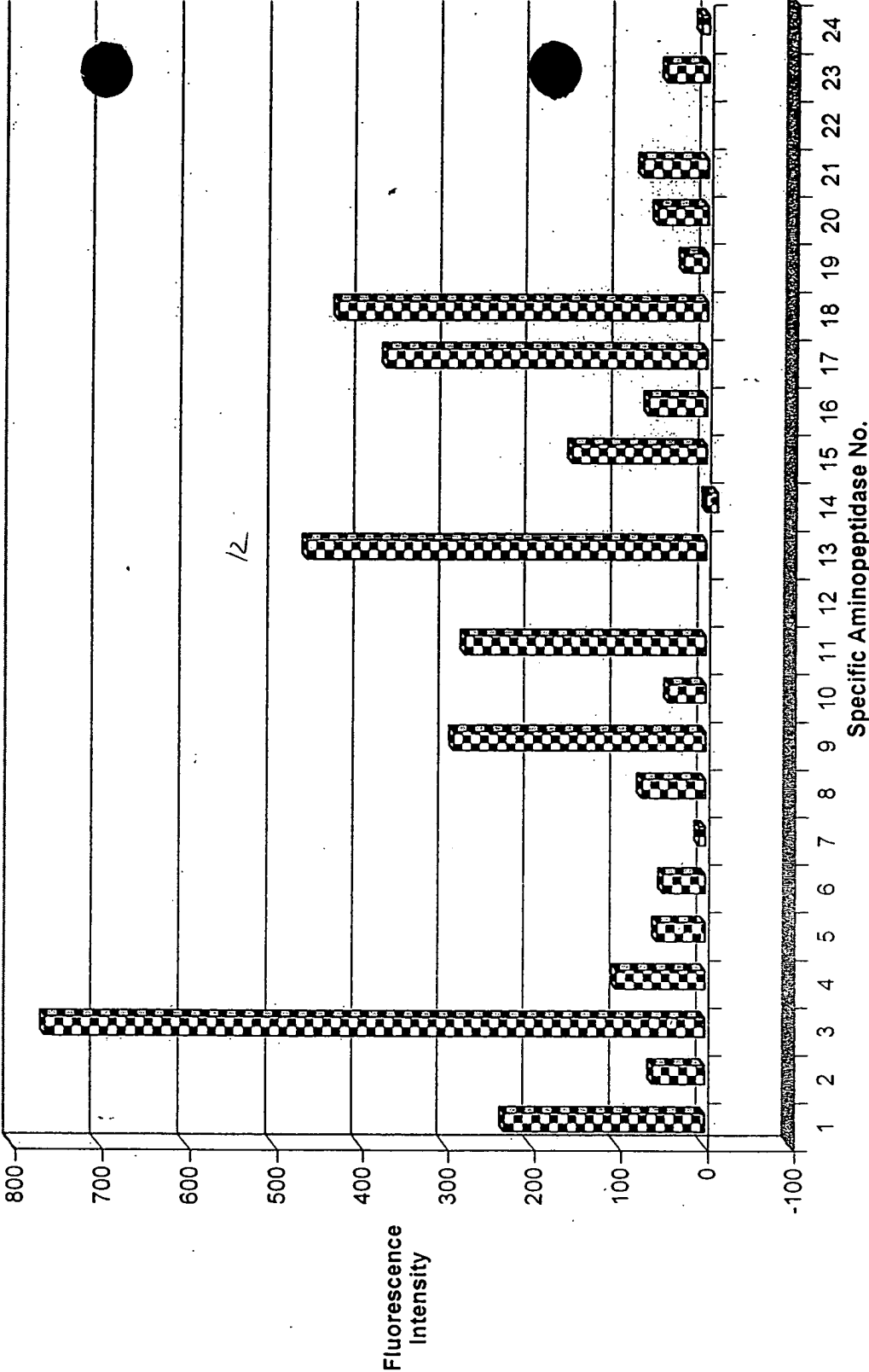


FIG. 9

Plate #2 Bacillus 1% ATCC Isolate

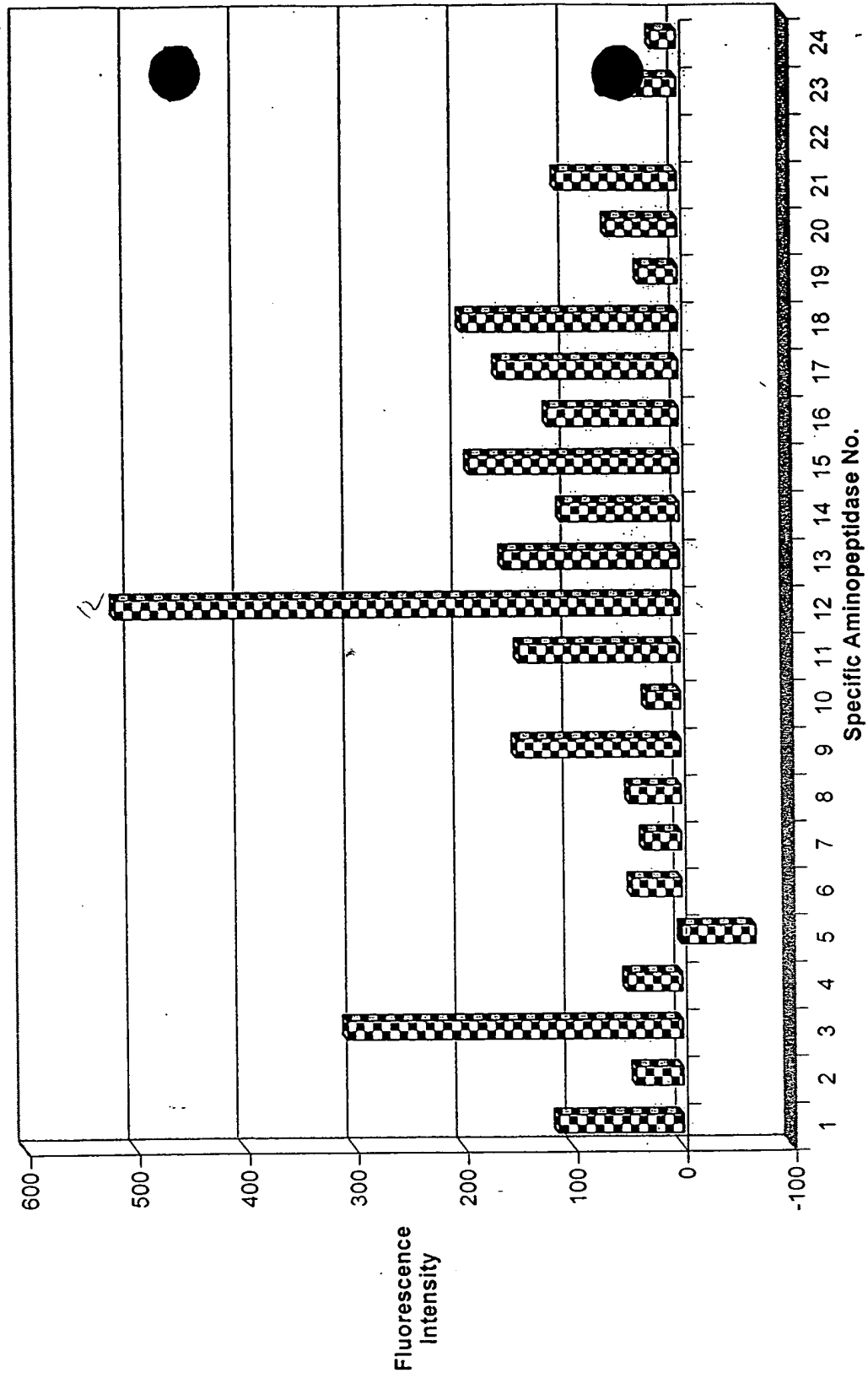


FIG. 10

Plate #3 Bacillus 30 degree Isolate

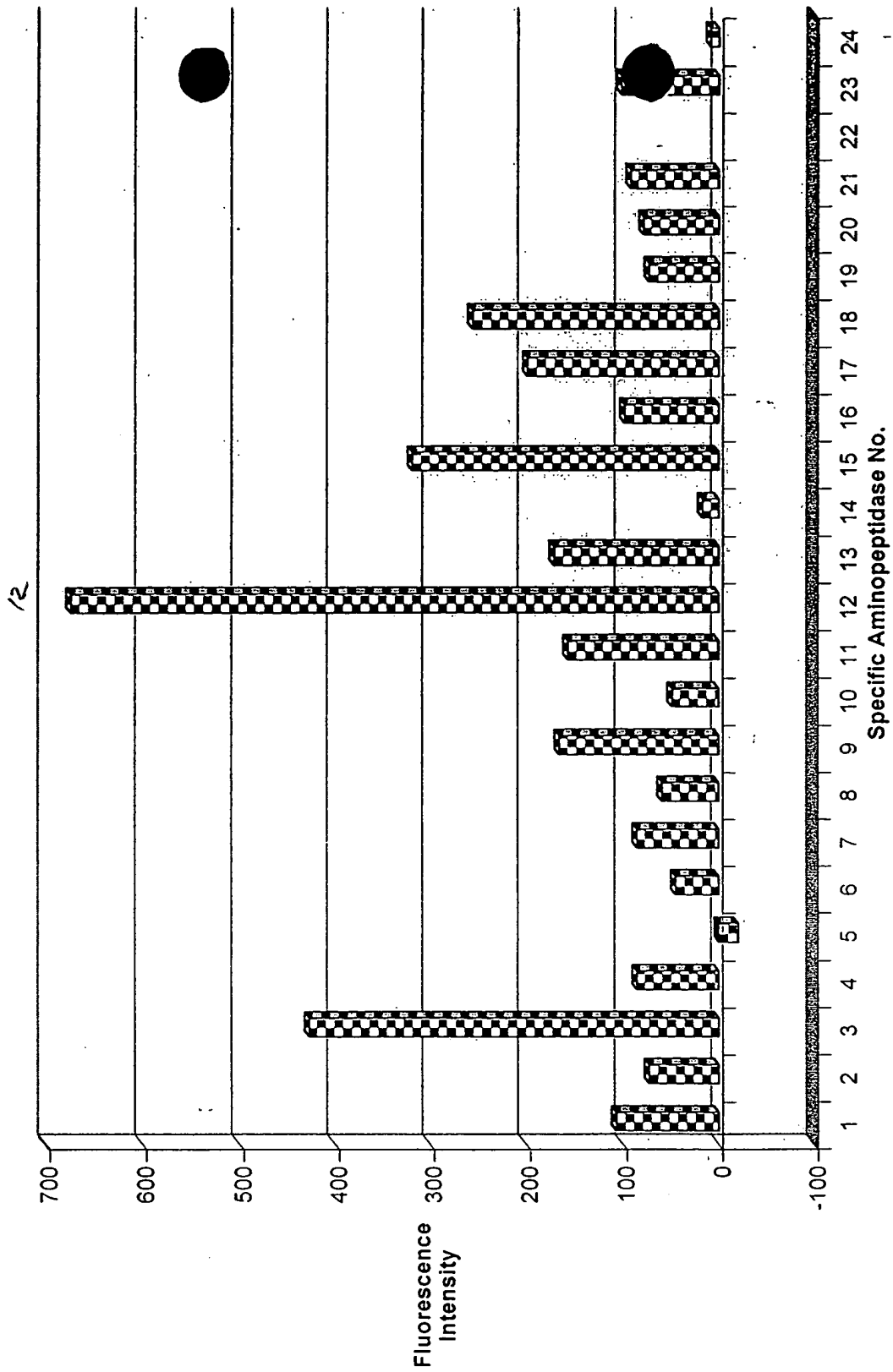


Plate #4 Bacillus 20 degree Isolate

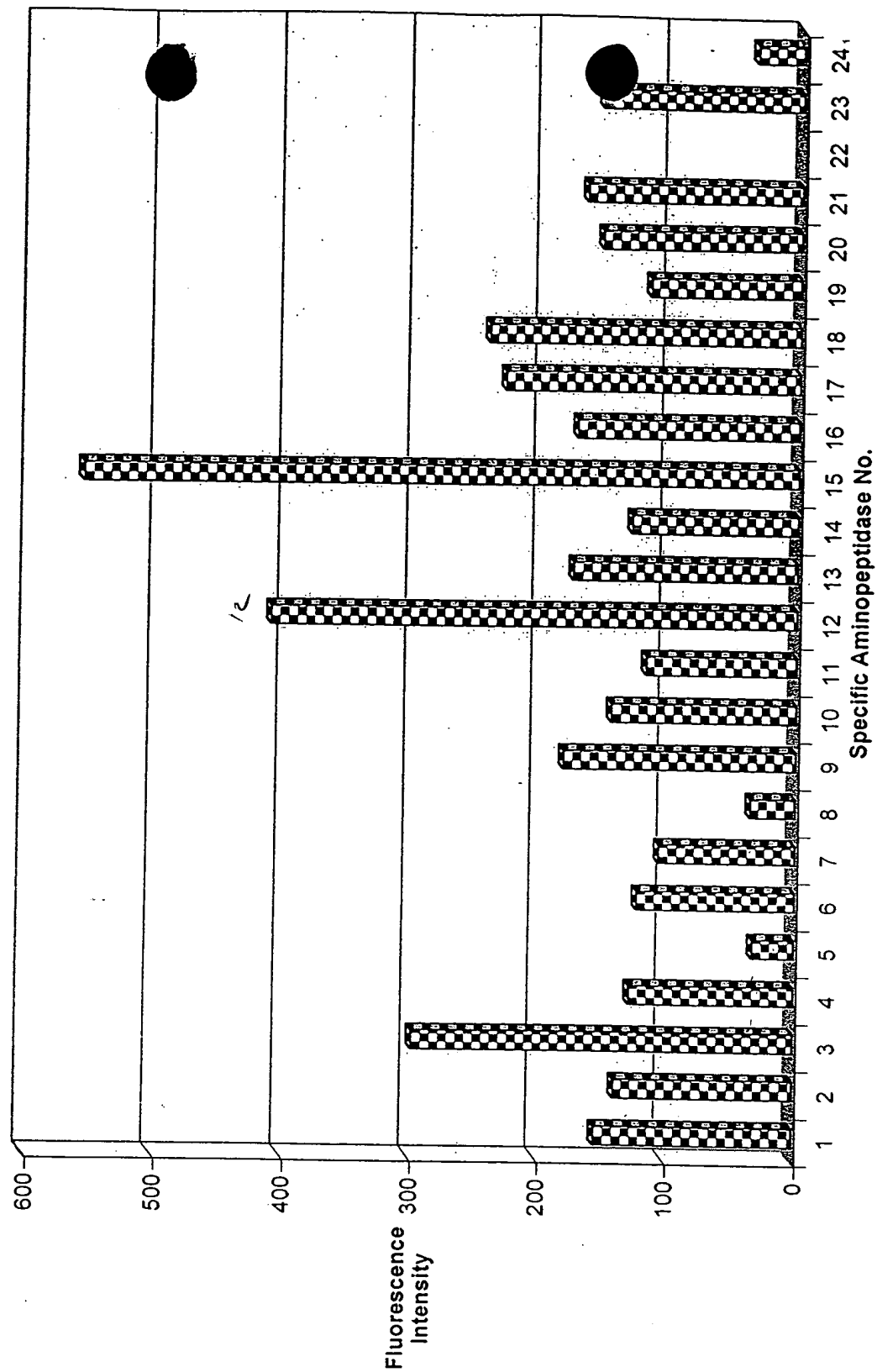


FIG. 12